



GrowerFacts Extra
Zinnia Zesty™

Additional Culture Research
from

PanAmerican Seed®

Zinnia Zesty™

Plant Growth Regulator Research, published 2020

PanAmericanSeed.

OBJECTIVE

To evaluate the effect of PGRs on Zinnia Zesty™ plugs.

MATERIALS AND METHODS

- Varieties: Zesty Fuchsia, Pink, Purple, Scarlet, and White
- Sow date: week 12
- Plug tray size: 288 cell
- Plug PGR treatment:
 - Paclobutrazol (Bonzi) 2ppm sprinch at sowing, then daminozide (B9 or Alar) 2500ppm 2 weeks after sowing
 - Daminozide (B9) 2500ppm at 1 week after sowing, repeated 1 week later
 - Control



Zinnia Zesty™

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ANNUALS

Bonzi 2ppm sprengch
+
B9 2500ppm spray

2x B9
2500ppm
spray

Control



Zesty Purple

Zesty Pink

Zesty Fuchsia

3 weeks after sowing

Zinnia Zesty™

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ANNUALS

Bonzi 2ppm spreng
+
B9 2500ppm spray

2x B9
2500ppm
spray

Control



Zesty White

Zesty Scarlet

3 weeks after sowing

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PLUG STAGE RECOMMENDATION

- Zinnia Zesty plugs are responsive to B9 2500ppm spray at 1 weeks after sowing. Repeat 1 week later if necessary.
- The alternative PGR treatment is to use Bonzi 2ppm sprinch at sowing or radicle emergence stage to control hypocotyl stretch. Follow up with a B9 2500ppm spray 2 weeks later.



Zesty Purple

Zinnia Zesty™

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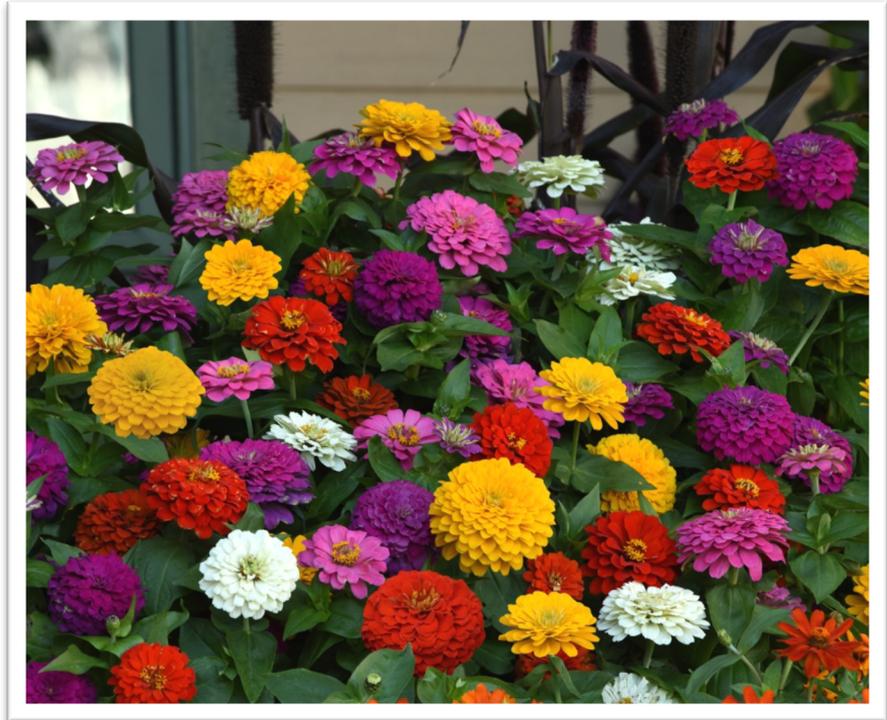
PanAmericanSeed.

OBJECTIVE

To evaluate the effect of PGRs on Zinnia Zesty™ at finish stages.

MATERIALS AND METHODS

- Varieties: Zesty Fuchsia, Pink, Purple, Scarlet, and White
- Transplant date: week 15
- Container size: Quart with 1ppp
- Finish PGR treatments:
 - paclobutrazol (Bonzi) 5ppm drench at 2 weeks after transplant (WAT)
 - 2x daminozide (B9) 2500/ chlormequat chloride (CCC) 350ppm spray at 2 and 4 WAT
 - 2x daminozide (B9) 2500ppm spray at 2 and 4 WAT
 - Control



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ANNUALS

2x B9 2500/
CCC 350ppm

2x B9 2500
ppm

Bonzi 5
ppm drench

Control



Zesty Fuchsia

2x B9 2500/
CCC 350ppm

2x B9 2500
ppm

Bonzi 5
ppm drench

Control



Zesty Pink

7 weeks after transplant

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ANNUALS

2x B9 2500/
CCC 350ppm

2x B9 2500
ppm

Bonzi 5
ppm drench

Control



Zesty Purple

2x B9 2500/
CCC 350ppm

2x B9 2500
ppm

Bonzi 5
ppm drench

Control



Zesty Scarlet

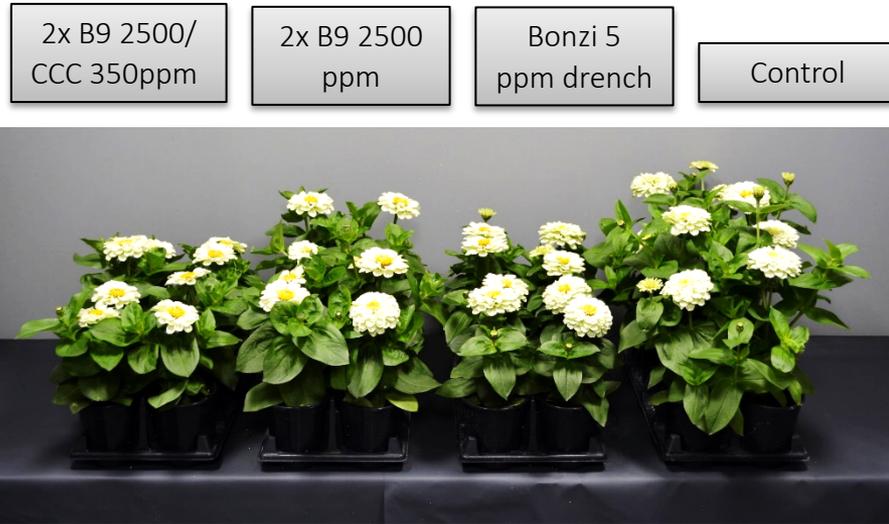
7 weeks after transplant

Zinnia Zesty™

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ANNUALS



Zesty White

7 weeks after transplant

Zinnia Zesty™

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ANNUALS

2x B9 2500ppm

Bonzi 5ppm dr



8 weeks after transplant

2x B9 2500ppm

Bonzi 5ppm dr



9 weeks after transplant

Bonzi drench had a longer residual activity.

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FINISH STAGE RECOMMENDATION

- All PGRs elicited height reduction in Zinnia Zesty.
- B9 2500ppm at 2 and 4 weeks after transplant worked well. If necessary, B9 and CCC tank mix can be used for stronger control. However, it is not recommended to use CCC rate higher than 350ppm as we have found it could reduce flower doubleness.
- Bonzi 5ppm drench was the strongest and the residual will last longer than B9 or B9/CCC tank mix. This is recommended for warmer conditions.



Zesty Scarlet